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1 of 3

CONFIDENTIAL

23 August 1954

MEM

MEMORANDUM FOR: THE RECORD

SUBJECT: Visit to [redacted] 25X1
25X1

1. **Time and Place of Meeting:** The meeting was held 0900, 23 August 1954 at the [redacted] 25X1
25X1

2. **Attendance:** [redacted] 25X1

3. **Discussion:**

a. Problems in Regard to P-101B Commo System, I.R.

The problem of operationally aligning two narrow beam IR commo systems was discussed with [redacted] It was explained that a simple method was required whereby two non-technical persons could align the systems using a signal plan. It was proposed that such a signal plan would contain a map giving the position of one operator and the bearing of the other operator's position. The signal plan would also contain a schedule of times to communicate and a systematic alignment search procedure. 25X1

If possible, the operator should, at the proper time obtained from the signal plan, be able to align his equipment at the assigned location on the prescribed bearing using simple instruments integral with the I. R. transceiver. Due to errors in reading these instruments and errors in the instruments themselves, in the exact location of the operator and in the bearings given, there will be a certain cone of uncertainty in which the true line-of-sight to the other operator lies.

If the maximum magnitude of this cone of uncertainty is known, a systematic search procedure can be arranged to make final alignment.

There are two questions which must be answered regarding the problem of alignment. The first is what type of instruments should be used to allow reasonably accurate alignment without becoming overly complicated. The second is what cumulative cone of error can be expected with these instruments. 25X1

[redacted]

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[redacted] was informed that what is desired is a report on the alignment problem containing recommendations answering these two questions. It was suggested that the work could be done under the [redacted] Task. The need for rapid action because of [redacted] tight schedule was mentioned and [redacted] replied that a conference would be held to consider accepting the problem on Monday 30 August when several [redacted] employees return from vacation. 25X1 25X1 25X1 25X1 25X1

b. [redacted] Project P-126 25X1

[redacted] has obtained and is presently testing the Auricon Super 1200 camera. The smaller Auricon has been converted to 16 frame per second speed and comparative tests are being run with it through the two types of mirrors. 25X1

The Auricon Super 1200 magazine protrudes 5 inches more forward of the camera tripod screw than the smaller Auricon. This will cause some difficulty in the present installation. It may be necessary to modify the magazine mount in order to obtain sufficient angular coverage in the room. Measurements of the installation are required to determine this.

4. Actions:

a. Contact [redacted] on 31 August to determine what action is to be taken on the I.R. Commo alignment problem. 25X1

b. Visit [redacted] and measure camera mounting, mirror, living room. Make sketch with dimensions labeled. 25X1

[redacted]

TSS/APD

Distribution:
Orig. - P-101B ✓
1 - P-126
1 - Chrono 25X1

AST/bb

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